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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/728,418	11/28/2000	Earnest E. Hughes	003239.P093	3843

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EXAMINER

SWICKHAMER, CHRISTOPHER M

ART UNIT	PAPER NUMBER
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2662

DATE MAILED: 03/22/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No. 09/728,418	Applicant(s) HUGHES ET AL.	
	Examiner Christopher M Swickhamer	Art Unit 2662	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☐ Responsive to communication(s) filed on ____.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-36 is/are pending in the application.
- 4a) Of the above claim(s) ____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) ____ is/are allowed.
- 6) ☒ Claim(s) 1-36 is/are rejected.
- 7) ☐ Claim(s) ____ is/are objected to.
- 8) ☐ Claim(s) ____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on ____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. ____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. ____. |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date ____. | 6) <input type="checkbox"/> Other: ____. |

DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

2. Claims 1-36 are rejected under 35 U.S.C. 102(e) as being anticipated by Denison et al (US 6,581,108 B1, hereafter Denison).

- Referring to claims 1, 13 and 25, Denison discloses an apparatus comprising: a table to store a plurality of entries for a packet in a sequence of packets of a message transmitted from a first network to a second network (IP translation table), the entries including a first connection identifier corresponding to the first network (address corresponding to the first network), the entries being obtained from a description file of the packet (use Abstract Syntax Notation to process the packet); and a parser coupled to the table to parse the sequence of packets using the table (remove the old address and replace it with the new address from the translation table), the parser extracting the first connection identifier (Fig. 1 and 2, col. 1, lns. 20-35, col. 1, lns. 55-col. 2, lns. 11, col. 2, lns. 47-67, col. 3, lns. 15-45, col ; 3, lns. 55-60, col. 4, lns. 8-23, col. 6, lns. 10-15).

- Referring to claim 31, Denison discloses a system comprising: a router (end node) in a first network to communicate a message to a second network; and MPAT (Management Payload Address Translator, a router) coupled to the end node to route the message, the router (MPAT)

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including a network address translation (NAT) processor, the NAT processor comprising: an table (IP Translation table) to store a plurality of entries for a packet in a sequence of packets of the message, the entries including a first connection identifier (first address) corresponding to the first network, the entries being obtained from a description file of the packet (entries obtained from the ASN information about the packet), and a parser coupled to the table to parse the sequence of packets using the table, the parser extracting the first connection identifier (the parser removes the old address and replaces it with the address of the second network, Fig. 1 and 2, col. 1, lns. 20-35, col. 1, lns. 55-col. 2, lns. 11, col. 2, lns. 47-67, col. 3, lns. 15-45, col ; 3, lns. 55-60, col. 4, lns. 8-23, col. 6, lns. 10-15).

- Referring to claims 2, 14, 26 and 32, Denison discloses the apparatus of parent claims claim 1, 13, 25 and 31 further comprises: a translator coupled to the parser to translate the first connection identifier into a second connection identifier corresponding to the second network (col. 2, lns. 60-67).

- Referring to claims 3, 15, 27 and 33, Denison discloses the apparatus of parent claims 2, 14, 26 and 32 wherein the table comprises: at least a message type entry to specify a message type (object) characterizing the message; and at least a data type entry (object type) to specify a data type of a subsequent packet in the sequence of packets (Fig. 2, col. 4, lns. 8-60).

- Referring to claims 4, 16, 28 and 34, Denison discloses the apparatus of parent claims 3, 15, 27 and 33 wherein the at least data type entry indicates a location of the first connection identifier in the subsequent packet (col. 4, lns. 34-51).

- Referring to claim 5, 17, 29 and 35, Denison discloses the apparatus of parent claim 3, 15, 27 and 33 wherein the at least data type entry comprises a termination entry to indicate that a

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remaining portion of the sequence of packets does not contain the first connection identifier (col. 4, lns. 62-66).

- Referring to claims 6, 18, 30 and 36, Denison discloses the apparatus of parent claims 5, 17, 29 and 35 wherein the parser skips the remaining portion of the sequence of packets upon recognizing the termination entry (col. 4, 62-66).

- Referring to claims 7 and 19, Denison discloses the apparatus of parent claims 1 and 13, wherein the first connection identifier is one of an address and a port identifier (col. 3, lns. 30-44).

- Referring to claims 8 and 20, Denison discloses the apparatus of parent claims 2 and 14 wherein the second connection identifier is one of an address and a port identifier (col. 3, lns. 30-44).

- Referring to claims 9 and 21, Denison discloses the apparatus of parent claims 1 and 13, wherein the first network is one of a private network and a public network (col. 1, lns. 55-67).

- Referring to claims 10 and 22, Denison discloses the apparatus of parent claims 1 and 13, wherein the second network is one of a private network and a public network (col. 1, lns. 55-67).

- Referring to claims 11 and 23, Denison discloses the apparatus of parent claims 1 and 13 wherein the description file is an abstract syntax notation (ASN) file (col. 3, lns. 55-65).

- Referring to claims 12 and 24, Denison discloses the apparatus of parent claims 11 and 23 wherein the table is inherently generated by an ASN compiler (col. 5, lns. 5-col. 6, lns. 35).

The system of Denison uses ASN to encode and parse the SNMP packets. Any addressing table must also be derived from ASN, which is inherently compiled by an ASN compiler.

Conclusion

3. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

- The Internet Engineering Task Force (IETF) Network Working Group Request for Comments (RFC) 1631, *The IP Network Address Translator*, May 1994.
- Taghadoss, US 6,175,867 B1. *System and Method for Managing Networks Addressed via Common Network Addresses*.
- Kloth, US 6,598,034 B1. *Rule Based IP Data Processing*.
- Rao, US 6,535,511 B1. *Method and System for Identifying Embedded Addressing Information in a Packet for Translation between Disparate Addressing Systems*.
- Wootton et al, US 6,128,298. *Internet Protocol Filter*.

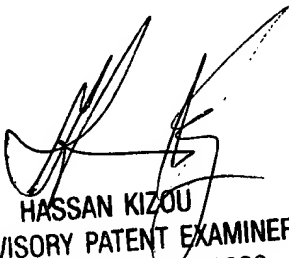
4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Christopher M Swickhamer whose telephone number is (703) 306.4820. The examiner can normally be reached on 8:00-4:30 M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Hassan Kizou can be reached on (703) 305-4744. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

CMS
March 16, 2004



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